

NEW

From Solax

X-HYBRID

X1-HYBRID HV

X3-HYBRID HV



X1-Hybrid HV



X3-Hybrid HV

X1-HYBRID HV/ X3-HYBRID HV

The World's Leading Hybrid Inverter Just Got Better

More than just an inverter, the innovative X-Hybrid is an intelligent energy management system that stores surplus energy in batteries for later use.

The X-Hybrid works by storing surplus energy in batteries for later use, making it possible to utilize solar power time-independently by storing unused capacity. It converts and directs solar power to where it is needed, when it is needed. X-Hybrid is also supplied EPS (Emergency Power Supply) function, allowing the end-user to use their stored energy in the event of a power outage.

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X1-Hybrid HV (SINGLE PHASE)

X3-Hybrid HV (THREE PHASE)

X1-HYBRID-3.0T X1-HYBRID-3.7T X1-HYBRID-4.6T X1-HYBRID-5.0T X3-Hybrid-5.0T X3-Hybrid-6.0T X3-Hybrid-8.0T X3-Hybrid-10.0T

| INPUT (DC) | X1-HYBRID-3.0T | X1-HYBRID-3.7T | X1-HYBRID-4.6T | X1-HYBRID-5.0T | X3-Hybrid-5.0T | X3-Hybrid-6.0T | X3-Hybrid-8.0T | X3-Hybrid-10.0T |
|---|---|-----------------|-----------------|---|-----------------|-----------------|-----------------|-----------------|
| Max.recommended DC power[W] | 4000 | 5000 | 6000 | 6000 | 6000 | 8000 | 10000 | 13000 |
| Max.DC voltage[V] | 600 | 600 | 600 | 600 | 1000 | 1000 | 1000 | 1000 |
| Norminal DC operating voltage[V] | 360 | 360 | 360 | 360 | 720 | 720 | 720 | 720 |
| Max.input current[A] | 10/10 | 10/10 | 10/10 | 10/10 | 11/11 | 11/11 | 11/11 | 20/11 |
| Max. short circuit current[A] | 14/14 | 14/14 | 14/14 | 14/14 | 14/14 | 14/14 | 14/14 | 23/14 |
| MPPT voltage range[V] | 125-550 | 125-550 | 125-550 | 125-550 | 230-800 | 280-800 | 370-800 | 330-800 |
| No. of MPP trackers | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Strings per MPP tracker | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2/1 |
| OUTPUT AC | | | | | | | | |
| Norminal AC power [VA] | 3000 | 3680 | 4600 | 4999 | 5000 | 6000 | 8000 | 10000 |
| Max. AC power [VA] | 3000 | 3680 | 4600 | 4999 | 5000 | 6000 | 8000 | 10000 |
| Rated grid voltage(AC voltage range) [V] | 230(180 to 270) | 230(180 to 270) | 230(180 to 270) | 230(180 to 270) | 400(360 to 440) | 400(360 to 440) | 400(360 to 440) | 400(360 to 440) |
| Rated grid frequency [Hz] | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Norminal AC current [A] | 13 | 16 | 20 | 21.7 | 7.6 | 9 | 12.2 | 15 |
| Max. AC current [A] | 14.4 | 16 | 21 | 21.7 | 8.5 | 10 | 13.5 | 16 |
| Displacement power factor | 0.8 leading ... 0.8 lagging | | | 0.8 leading ... 0.8 lagging | | | | |
| Total harmonic distortion(THD, rated power) [%] | <2 | | | <2 | | | | |
| Parallel operation | Yes | | | Yes | | | | |
| Load control | Yes (optional) | | | Yes (optional) | | | | |
| OUTPUT DC (BATTERY) | | | | | | | | |
| Battery voltage range [V] | 85-400 | | | 170-500 | | | | |
| Recommended battery voltage [V] | 300 | | | 320 | | | | |
| Max.charging/discharging power [W] | 6000 | | | 200 | | 240 | | 400 |
| Max.charging/discharging current [A] | 20 | | | 6000 | | 8000 | | 10000 |
| Communication interfaces | CAN/RS485 | | | CAN/RS485 | | | | |
| Reverse connect protection | Yes | | | No | | | | |
| EPS OUTPUT (WITH BATTERY) | | | | | | | | |
| EPS rated power [VA] | 4000 | 4000 | 5000 | 5000 | 5000 | 6000 | 8000 | 10000 |
| EPS rated voltage [V], Frequency [Hz] | 230, 50/60 | 230, 50/60 | 230, 50/60 | 230, 50/60 | 400/380, 50/60 | 400/380, 50/60 | 400/380, 50/60 | 400/380, 50/60 |
| EPS rated current [A] | 17.4 | 17.4 | 21.7 | 21.7 | 7.6 | 9 | 12.2 | 15 |
| EPS peak power[W];Duration [s] | 8000,10 | 8000,10 | 8000,10 | 8000,10 | 10000,60 | 12000,60 | 16000,60 | 16000,60 |
| Switch time[s] | <0.5 | | | <0.5 | | | | |
| Total harmonic distortion(THD, linear load) [%] | <2 | | | <2 | | | | |
| Parallel operation | Yes | | | Yes | | | | |
| EFFICIENCY | | | | | | | | |
| MPPT efficiency [%] | 99.90 | 99.90 | 99.90 | 99.90 | 99.90 | 99.90 | 99.90 | 99.90 |
| Euro efficiency [%] | 97.00 | 97.00 | 97.00 | 97.00 | 97.00 | 97.00 | 97.00 | 97.00 |
| Max. efficiency [%] | 97.80 | 97.80 | 97.80 | 97.80 | 97.60 | 97.60 | 97.60 | 97.60 |
| Battery charge/discharge efficiency [%] | 98.50 | 98.50 | 98.50 | 98.50 | 96.00 | 96.00 | 96.00 | 96.00 |
| POWER CONSUMPTION | | | | | | | | |
| Standby consumption(night) [W] | <7 | | | <7 | | | | |
| Idle mode | YES | | | YES | | | | |
| STANDARD | | | | | | | | |
| Safety | IEC62109-1-2 / IEC62040 | | | IEC62109-1-2 / IEC62040/ AS3100 | | | | |
| EMC | EN61000-6-1/EN61000-6-2/EN61000-6-3 | | | EN61000-6-1/EN61000-6-2/EN61000-6-3 | | | | |
| Certification | VDE0126-1-1 A1:2012/VDE-AR-N4105/G83/G59/AS4777/EN50438/CEIO-21/VDE2510 | | | VDE0126-1-1 A1:2012/VDE-AR-N4105/G59-3/AS4777/EN50438/CEI 0-21/IEC62040/IEC62619/ISO13849-2/SN29500/IEC615086 | | | | |
| ENVIRONMENT LIMIT | | | | | | | | |
| Protection class | IP65 | | | IP65 | | | | |
| Operating temperature range [°C] | -20 to+60 (derating at+45) | | | -25 to+60 (derating at+45) | | | | |
| Altitude[m] | <2000 | | | <2000 | | | | |
| Storage temperature[°C] | -20 to+60 | | | -20 to+60 | | | | |
| Noise emission(typical) [dB] | <30 | | | <30 | | | | |
| Over voltage category | III (electric supply side), II (PV side) | | | III (electric supply side), II (PV side) | | | | |
| DIMENSION AND WEIGHT | | | | | | | | |
| Dimensions(WxHxD) [mm] | 460*477*181.5 | | | 655*456*208 | | | | |
| Weight[kg] | 26.9 | | | 40 | | | | |
| Cooling concept | Forced-cooling | | | Forced-cooling | | | | |
| Topology | Transformerless | | | Transformerless | | | | |
| Communication | Ethernet, Meter, WIFI (optional), RF(optional), DRM, USB, ISO alarm, Parallel operation | | | Ethernet, Meter, WIFI (optional), RF(optional), DRM, USB, ISO alarm, Parallel operation | | | | |
| LCD display | Backlight 20*4 character | | | Backlight 20*4 character | | | | |
| Standard warranty [years] | 5-10 | | | 5-10 | | | | |

*Can be modified without notice.(V2)